

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.0068 0101	Serial No.: 09/529,691
	Applicant(s): Gregg B. FIELDS et al.	
	Int'l Filing Date: 22 October 1998 35 U.S.C. §371 Date: 18 April 2000	Group: Unassigned <i>SR</i> <i>1642</i>

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
<i>SR</i>	5,082,926	01/21/92	Chelberg et al.			
<i>SR</i>	5,117,009	05/26/92	Barany			
<i>SR</i>	5,196,566	03/23/93	Barany et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	SubClass	Translation
				Yes	No	
<i>SR</i>	WO 91/08755	06/27/91	PCT			
<i>SR</i>	WO 98/08098	02/26/98	PCT			
<i>SR</i>	WO 99/20300	04/29/99	PCT			

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

<i>SR</i>	1	Albericio et al., "Preparation and Application of the 5-(4-(9-Fluorenylmethyloxycarbonyl)aminomethyl-3,5-dimethoxyphenoxy)-valeric Acid (PAL) Handle for the Solid-Phase Synthesis of C-Terminal Peptide Amides under Mild Conditions," <i>J. Org. Chem.</i> , 55(12):3730-3743 (1990).
<i>SR</i>	2	Amidon et al., "Absorption of Peptide and Peptidomimetic Drugs," <i>Ann. Rev. Pharmacol. Toxicol.</i> , 34:321-341 (1994).
<i>SR</i>	3	Barany et al., "Solid-Phase Peptide Synthesis," <i>The Peptides: Analysis, Synthesis, Biology, volume 2: Special Methods in Peptide Synthesis, Part A</i> , Gross et al., eds., Academic Press, New York, Title page, publication page, table of contents, and pages 1-284 (1979).
<i>SR</i>	4	Barany et al., "Solid-phase peptide synthesis: a silver anniversary report," <i>Int. J. Peptide Protein Res.</i> , 30(6):705-739 (1987).
<i>SR</i>	5	Berndt et al., "Synthetic Lipidation of Peptides and Amino Acids: Monolayer Structure and Properties," <i>J. Am. Chem. Soc.</i> , 117:9515-9522 (1995).
<i>SR</i>	6	Chelberg et al., "Characterization of a Synthetic Peptide from Type IV Collagen That Promotes Melanoma Cell Adhesion, Spreading, and Motility," <i>J. Cell. Biol.</i> , 111:261-270 (1990).
<i>SR</i>	7	Dooley, "An All D-Amino Acid Opioid Peptide with Central Analgesic Activity from a Combinatorial Library," <i>Science</i> , 266(5193):2019-2022 (1994).

EXAMINER <i>J. Raw</i>	Date Considered <i>12/17/01</i>
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<i>S 2</i>	<i>1</i>	Fields, C., et al., "Melanoma Cell Adhesion and Spreading Activities of a Synthetic 124-Residue Triple-helical "Mini-collagen", " <u>J. Biol. Chem.</u> , <u>268</u> (19):14153-14160 (1993).
	<i>✓</i>	Fields, C., et al., "Solid-Phase Synthesis and Stability of Triple-Helical Peptides Incorporating Native Collagen Sequences," <u>Biopolymers</u> , <u>33</u> :1695-1707 (1993).
	<i>•</i>	Fields, C., et al., "Edman Degradation Sequence Analysis of Resin-Bound Peptides Synthesized by 9-Fluorenylmethoxycarbonyl Chemistry," <u>Peptide Res.</u> , <u>6</u> (1):39-47 (1993).
	<i>†</i>	Fields, C., et al., "Purification and Analysis of Synthetic, Triple-Helical "Minicollagens" by Reversed-Phase High-Performance Liquid Chromatography," <u>Anal. Biochem.</u> , <u>231</u> (1):57-64 (1995).
	<i>†</i>	Fields, G., et al., "Solid phase peptide synthesis utilizing 9-fluorenylmethoxycarbonyl amino acids," <u>Int. J. Peptide Protein Res.</u> , <u>35</u> (3):161-214 (1990).
	<i>†</i>	Fields, G., et al., "Chapter 3: Principles and Practice of Solid-Phase Peptide Synthesis," <u>Synthetic Peptides: A User's Guide</u> , Grant, ed., W. H. Freeman and Co., NY, Title page, publication page, table of contents, and pages 77-183 (1992).
	<i>▲</i>	Fields, G., "The Collagen Triple-Helix: Correlation of Conformation With Biological Activities," <u>Connect. Tissue Res.</u> , <u>31</u> :235-243 (1995).
	<i>▲</i>	Fields, G., et al., "Proteinlike Molecular Architecture: Biomaterial Applications for Inducing Cellular Receptor Binding and Signal Transduction," <u>Biopolymers</u> , <u>47</u> (2):143-151 (July 20, 1998).
	<i>▼</i>	Grab et al., "Promotion of Fibroblast Adhesion by Triple-helical Peptide Models of Type I Collagen-derived Sequences," <u>J. Biol. Chem.</u> , <u>271</u> (21):12234-12240 (1996).
	<i>▼</i>	Herbst et al., "Differential Effects of Laminin, Intact Type IV Collagen and Specific Domains of Type IV Collagen on Endothelial Cell Adhesion and Migration," <u>J. Cell. Biol.</u> , <u>106</u> :1365-1373 (1988).
<i>↓</i>	<i>▼</i>	Knutson et al., "A type IV collagen-derived synthetic peptide, IV-H1, interacts with human melanoma CD44/chondroitin sulfate proteoglycan and inhibits invasion of basement membranes," Abstract 407, 86 th Ann. Meeting of the American Assoc. of Cancer Research, Toronto, Ontario, Canada, March 18-22, Proc. Am. Assoc. Cancer Res., <u>36</u> :68 (1995).

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<i>SP2</i>	1	Lauer et al., "Sequence dependence of aspartimide formation during 9-fluorenylmethoxycarbonyl solid-phase peptide synthesis," <u>Lett. Peptide Sci.</u> , <u>1</u> (4):197-205 (1995).
	1	Lauer et al., "Inhibition of Melanoma Cell Binding to Type IV Collagen by Analogs of Cell Adhesion Regulator," <u>J. Med. Chem.</u> , <u>40</u> (19):3077-3084 (1997).
	2	Li et al., "An all-D Amino Acid Peptide Model of $\alpha 1$ (IV)531-543 from Type IV Collagen Binds the $\alpha_3\beta_1$ Integrin and Mediates Tumor Cell Adhesion, Spreading, and Motility," <u>Biochem.</u> , <u>36</u> (49):15404-15410 (1997).
	3	Lu et al., "Pegylated Peptides I: Solid-Phase Synthesis of N ^α -Pegylated Peptides Using Fmoc Strategy," <u>Peptide Res.</u> , <u>6</u> (3):140-146 (1993).
	4	Mayo et al., "Cell Adhesion Promoting Peptide GVKGDKGNPGWPGAP from the Collagen Type IV Triple Helix: Cis/Trans Proline-Induced Multiple ¹ H NMR Conformations and Evidence for a KG/PG Multiple Turn Repeat Motif in the All-Trans Proline State," <u>Biochem.</u> , <u>30</u> :8251-8267 (1991).
	5	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide," <u>J. Am. Chem Soc.</u> , <u>85</u> :2149-2154 (1963).
	6	Mickelson et al., "A Cell Surface Chondroitin Sulfate Proteoglycan Mediates Melanoma Cell Motility and Adhesion to a Helical Domain of Type IV Collagen," Abstract 1664, 31 st Ann. Meeting, Am. Soc. for Cell Biology, December 8-12, Boston, <u>J. Cell. Biol.</u> , <u>115</u> :287a (1991).
	7	Miles et al., "Promotion of Cell Adhesion by Single-stranded and Triple-helical Peptide Models of Basement Membrane Collagen $\alpha 1$ (IV)531-543; Evidence for Conformationally Dependent and Conformationally Independent Type IV Collagen Cell Adhesion Sites," <u>J. Biol. Chem.</u> , <u>269</u> (49):30939-30945 (1994).
	8	Nagase et al., "Design and Characterization of a Fluorogenic Substrate Selectively Hydrolyzed by Stromelysin 1 (Matrix Metalloproteinase-3)," <u>J. Biol. Chem.</u> , <u>269</u> (33):20952-20957 (1994).
	9	Nomizu et al., "The All-D-configuration Segment Containing the IKVAV Sequence of Laminin A Chain Has Similar Activities to the All-L-peptide <i>in Vitro</i> and <i>in Vivo</i> ," <u>J. Biol. Chem.</u> , <u>267</u> (20):14118-14121 (1992).
<i>▼</i>	10	Pierschbacher et al., "Influence of Stereochemistry of the Sequence Arg-Gly-Asp-Xaa on Binding Specificity in Cell Adhesion," <u>J. Biol. Chem.</u> , <u>262</u> (36):17294-17298 (1987).

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SP2	b	Rao et al., "Promotion of Human Platelet Adhesion and Aggregation by a Synthetic, Triple-helical "Mini-collagen", " <u>J. Biol. Chem.</u> , <u>269</u> (19):13899-13903 (1994).
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		Schnölzer et al., "Constructing Proteins by Dovetailing Unprotected Synthetic Peptides: Backbone-Engineered HIV Protease," <u>Science</u> , <u>256</u> (5054):221-225 (1992).
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		Yoshinaga et al., "Role of $\alpha_3\beta_1$ integrins in melanoma cell migration," <u>Melanoma Res.</u> , <u>3</u> (6):435-441 (1993).
		Yu et al., "Self-Assembling Amphiphiles for Construction of Protein Molecular Architecture," <u>J. Am. Chem. Soc.</u> , <u>118</u> (50):12515-12520 (1996).
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		Yu et al., "Minimal Lipidation Stabilizes Protein-Like Molecular Architecture," <u>J. Am. Chem. Soc.</u> , <u>120</u> (39):9979-9987 (October 7, 1998; available on-line September 19, 1998).

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